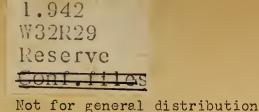
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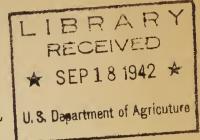
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July 1942

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UNITED STATES DEPARTMENT OF AGRICULTURE U.S.Agricultural Marketing Administration Washington, D. C.

REPORT ON INTERLABORATORY
STUDY OF CARDED WOOL, WOOL TOP, AND NOIL



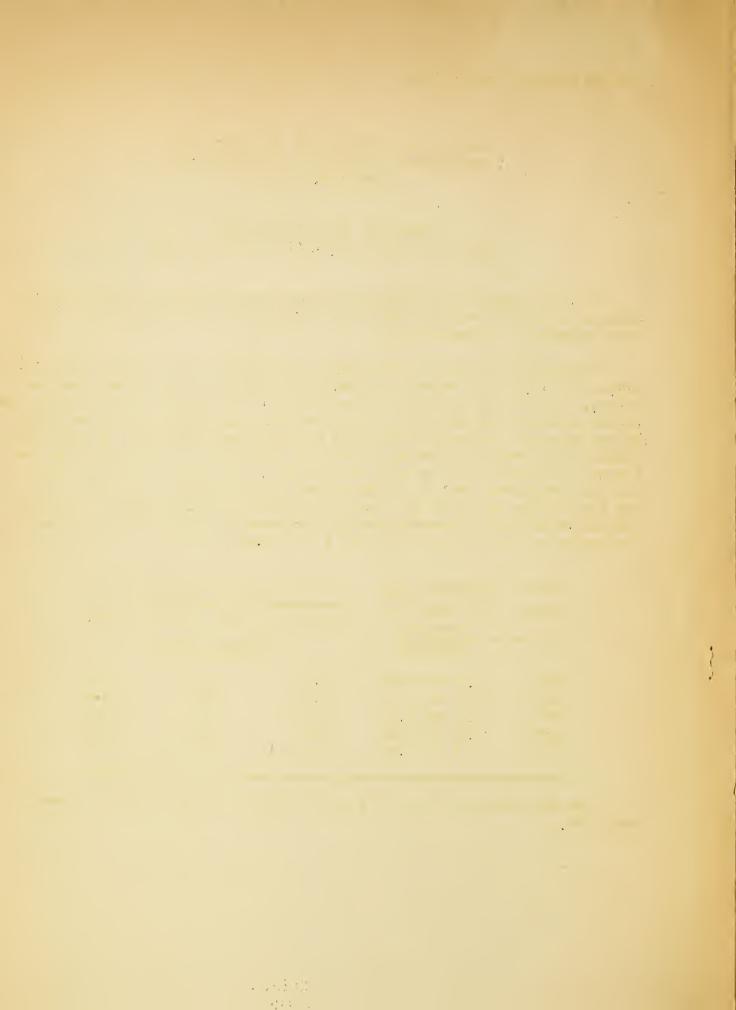
The relationship of fineness in carded wool, wool top, and noil was studied by the Agricultural Marketing Administration in cooperation with nine industrial laboratories.

The study was made on five lots, one each of grades 64's, 60's, 58's, 56's, and 50's, which were assembled by a committee of the trade and industry. Samples of each lot were submitted to the cooperating laboratories by the Agricultural Marketing Administration. In making the tests, which in the aggregate comprised more than 90,000 measurements, the laboratories followed the usual procedures and schedules for measuring diameter of fiber of wool top. These methods of test have been published by the Department of 'griculture and the American Society for Testing Materials. In the table below are given the grand averages for the diameter of fiber of the different lots in comparison with the average fiber diameter values of the grades of the official wool top standards.

	Requirements	TEST LOTS					
Grade	of Wool Top Standards	Wool Top Card Sl	iver Noil				
	Microns	Hicro	n s				
64's	21.1 to 22.5	21.3 20.8	19.6				
60's	24.1 to 25.5	24.0 23.5	21.4				
58's	25.6 to 27.0	26.0 25.1	22.8				
56's	27.1 to 29.0	27.5 26.9	24.3				
50's	29.1 to 31.5	30.4 29.4	26.0				

The data obtained in the tests are given in detail in the attached schedules.





Diameter and distribution of fibers of carded wool, wool top, and noil as determined by 10 laboratories

			1	Pei	centage	of fiber	's by mic	eron from	ıps	Observa-
Lab.	X	6	V	10-20	10-30	30-40	30-50	40-30	Cver schedule	tions
					64's Sta	indard To	g			
	21.1 22.5			36	94	6			0.333	600
					64's Tor	No. 644	21			
1 2 3 4 5 6 7 8 9	21.28 21.51 21.50 20.95 21.25	4.51 4.21	21.1 20.8 20.4	43.0 38.5 48.00 41.75 40 38 48 41.65 47.6 41.0	96.3 96.5 97.25 97.00 96 96 97 96.17 97.5 95.7	3.7 3.5 2.75 2.75 4 3 3.83 2.3 3.6			0.0 0.0 0.25 0.0 0.0 0.0 0.0 0.2 0.7	600 800 400 600 600 600 600 300
	64's Card Sliver No. 64421									
1 2 3 4 5 6 7 8 9	21.02 20.86 21.00 20.67 20.89	4.45 4.12	21.8 20.9 20.0	49.2 45 50.50 44.00 47 45 49 46.17 54.5 47.3	97.7 96 97.50 97.00 97 97 97 96.50 99.5 97.6	2.3 4 2.50 2.50 3 3.50 0.5 2.3			0.0 0.0 0.0 0.5 0.0 0.0 0.0 0.0	600 800 409 600 600 600 600 300
	and the second	•		(64's Moil	s No. 64	421			
1 2 3 4 5 6 7 8 9	19.20 20.09 19.7 19.88 19.59 20.20 19.64 19.03 19.6 19.49	4.27 3.59	23.9 21.3 18.2	62.3 52.5 56.75 66.25 59 52 59 62.25 62.0 57.4	98.0 97.5 99.75 98.25 98.0 98.0 98.75 99.2 96.7	1.8 2.5 0.25 1.75 1.2 2.0 2			0.2 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	600 800 400 600 600 400 600 300
	<u> </u>		<u> </u>							



				Per	centage	of fiber	cs by mic	ron gro	ans	Observa-
Lab.	Х	6	V	10-20	10-30	30-40	30-50	40-50	Over schedule	tions
	Control Truster or an entire				60's Sta	undard To	<u>p</u>			
	24.1 25.5		v Andre Communication of Manager	18	83	17		-	0∙ 5	800
					60's To	No. 604	121		To the state of th	
1 2 3 4 5	24.13 24.11 24.1	5.76	25.2 23.9 24.8	29.0 24.5 27.0	84.0 87 84.13	14.9 11.5 14.75		-	1.1 1.5 1.12	800 1200 800
5	24.56	And the state of t		20.5	82.2	16.5			1.3	600
6 7 8 9 10	23.79 24.32 23.6 23.84	5.9	25.0	29 27.38 34.3 26.0	87 83.87 87.3 87.7	12 14.63 12.0 10.6			1 1.5 0.7 1.7	600 800 800 300
				60's	Card Sl	liver No.	60421		The special of the sp	ngging- ni
1 2 3	23.35 24.43 22.4	5.81	24.8 23.8 23.2	30.9 23.5 34.75	86.8 85.5 90.25	12.6 13 9.75			0.6 1.5 0.0	800 1200 400
4 5	23.39	e ign gelegen er en engelegen er en		27.1	87.8	11.9			0.3	1100
6 7 8 9	23.39 23.77 23.7 23.30	5.3	22.8	28 30.75 28.4 29.7	87 84.50 89.4 88.3	12 13.75 10.6 11.7			0.5 1.75 0.0 0.0	600 800 800 300
	-	and the state of t		6	30's Noi.	s No. 60	421			New York / Minney-Very Year
1 2 3 4	21.55 21.98 21.6	5.17	24.5 23.5 24.4	42. 5 39 43.25	93.1 93.5 94.00	6.8 6.5 5.50			0.1 0.0 0.5	800 1200 400
4 5 6 7	21.14	The Barry British	Tribulation of the state of the	45	95	5			0.0	800
7 8 9 10	21.71 21.24 20.4 21.38	2	66	43 47.7 56.8 43.7	92 92.2 95.9 92.3	8 7.3 4.0 7.7			0.0 0.5 0.1 0.0	600 600 800 300

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				Pei	rcentage	of fiber	s by mid	eron gro	ups 1	Observa-
Lab.	X	6	V	10-20	10-30	30-40	-	40-50	Over schedule	tions
	-	-			58's Sta	andard To	р			
	25.6 27.0			16	74	e Congression and Adjusted and	26	2	0.75	1200
	21.0			10		No. 584		۵	0.75	12.00
					20.8 19	NO. 554	±2.T			
1 2	26.83 26.50		26.7 25.5	16.8 17	68.3 73.5		31.3 22.5	3.8 4	0.4	800 1200
3	25.6	6.57	25.6	21.50	77.75		22.13	2.63	0.12	800
4 5 6	26.56			15.1	72.1		27.9	3.6		800
7	25.52			21	75		25	2	0.0	600
8 9	25.86 25.1	6.0	23.7	20.5 24.9	74.38 78.6		25.5 21.4	3.12 1.0	0.12	800 800
10	25.90				1 78.3		21.6	4.9	0.0	700
				581	s Card Si	liver No	58421		1 m	
1	25.63		26.1	18.3	77.3		22.2	2.1	0.5	800
2 3	25.62 25.1	6.71 6.84	26.2 27.2	20.5 23.00	78 81.25		19 15.50	3.0	3.25	1200 400
4								0. 12		
5 6	25.68			17	78.25		21.75	2.3	0.0	800
7 8-	24.76 25.47			23 21.25	81 78.12		17 21.88	2.5	0.0	600 800
9	1	6.7	27.2	29.8	80.1		19.9	1.0	0.0	800
10	24.29			26.3	82.0	!	18.0	1.3	0.0	400
	e and		and the second s	_	58's Noil	s No. 58	3421			
1	22.50	ŧ	28.9	40.3	85.8		14.2	1.2	0.0	800
2 3	23.05 23.1	7	24.9 126.6	32 33.00	89.5 89.25		9 8.50	1.5 2.25	0.0	1200 400
4 5	22.45	August as a factor of the control of	Rep. Spr. Address	40	87.6		12.4	1.3	0.0	800
6	23.15			3 5	86		12	2	0.0	600
8	23.35	N. C.		34.25	83.87		16.13	2.13	0.0	800
9 10	23.1	6.I	29.1	40.5 44.0	87.5 93.0		12.5 7.0	1.0 0.7	0.0	800 400
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	Percentage of fibers by micron groups										
Lab.	X	6	V	10-20	10-30	30-40	30-50	40-50	Over schedule	tions	
					56's Sta	andard To	o <u>p</u>				
	27.1			9	64		36	5	1.	1200	
					56's To						
1 2 3	27.25 28.32 27.31	7.41	24.8 26.2 25.7	13.6 11.5 15.25	68.7 64.5 69.75		31.1 29 29.88	3.7 6.5 4.50	0.2 0.0 0.37	1200 1200 800	
4 5 6 7	27.56	-	Talakara (ar vala va	12.5	67		34.5	4.5	0.0	800	
7 8 9	27.03 27.66 27.2		24.4	14 13.75 15.4	68 64.83 68.5		32 34.67 31.5	3 4.25 3.0	0.33 0.5 0.0	600 1200	
10	27.27		have spiritually to believe one	14.1	70.4		29.2	6.7	0.2	1200	
			and the state of t	56':	s Card Si	liver No.	56421				
1 2 3	26.58 27.21 27.26	6.20	25.7 22.9 24.5	16.6 13.5 13.50	70.0 71 68.38		29.8 24 30.37	3.1 5 3.75	0.2 0.0 0.25	1200 1200 800	
4 5 6	27.03			14	69		31	3.3	0.0	1200	
7 8 9	26.78 27.46 26.4 26.71	6.3	23.9	15 15.0 17.8 17.0	72 68.08 77.0 74.0		28 31.09 23.0 26.6	4.42 1.9 5.0	0.67 0.83 0.8 0.0	600 - 1200 1200	
					56's Noil	ls No. 56					
7	07 07	E 08	24.0	-		15 NO. E.				600	
1 2 3	23.83 25.18 24.1	6.45	24.9 25.7 27.5	28.8 20.5 28.63	85.4 80 84.38		14.6 17 12.75	1.4 3 0.0	0.0 0.0 2.87	800 1200 800	
4 5 6	24.08			28	83.4		16.6	2.5	0.0	1200	
7 8 9	24.53		22 6	24 25.88	79 81;25		21 18.63	2 2.5	0.33	600 800	
10	24.3 23.63	•	22.6	27.4 30.1	89 . 0 86 . 3		11.5 13.4	0.5	0.0	1200	

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				Fei	rcentage	of fiber	s by mic	ron grou	ups.	Observa-
Lab.	X	6	V	10-20	10-30	30-40	30-50	40-50	Over schedule	tions
					50's Sta	andard To	p			
	29.1 31.5			4	45		55	10	1.25	1200
					50's Top No. 50421					
1 2 3	30.45 31.09 29.7	8.23	25.9 26.5 26.1	8.1 7 9.25	50.9 50 52.75		48.1 30.5 46.50	11.3 11.5 8.50	1.0 2 0.75	1200 1200 400
4 5	30.28			6.0	52.5		47	3	0.01	800
6 7 8 9 10	29.37 30.75 30.8 30.39	7.5	24.4	9.2	58 49.08 46.2 54.6		40.5 49.67 55.5 43.5	8.5 10.5 9.2 11.3	1.5 1.25 0.3 1.78	800 1200 900
	We have the first of the second secon			<u>50 ' s</u>	cerd S	liver No.	50421		All Andrews	And the second s
2 3	29.68 29.85 29.6	7.74	25.5 25.9 25.3	9.8 8.5 8.0	53.3 57.5 60.0	Production of the Artificial Control of the	46.3 32.5 39.0	9.4 9 9.5	0.4	1200 1200 400
4 5	29.33	A a second description of the second descrip	Annah de de la companya de la compan	9	56.7		43	9	0.3	1200
6 7 8 9 10	29.51 29.40 28.9 28.58	6.9	23.8	7 9.25 10.6 12.5	55 56.58 57.7 61.7	Transportation of the control of the	45 42.75 42.3 38.2	10 9.17 4.7 9.0	0.0 0.67 0.0 0.83	400 1200 600
	to the property of	gardige da - da - da - jarantanaga			50's Noi	Ls No. 50	0421		Time of the control o	1
1 2 3 4	26.13 26.25 26.6	•	27.4 27.6 18.9	19.5 19.5 20.25	73.1 75 71.00	o description of the property of the second	26.4 19.5 28.50	3.0 5.5 3.50	9.5 0.0 0.50	800 1200 400
5	25.73			21	75.9	Company of the Compan	23.6	3.2	0.5	1200
7 8 9	25.69 26.52 25.4 25.27		26.0	18 18.66 23.2 24.0	77 71.75 78.8 76.8	And the second s	22 26.67 21.0 20.2	2 4.75 1.7 3.8	1 0.58 0.2 1.0	400 1200 600
	20.21			25.0	70.0		20.2	5.0	1.00	

